## INTERNATIONAL SEARCH REPORT



a. classification of subject matter IPC 7 H05K3/46 H05K H05K3/18 H05K3/10 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 H05K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2002/129972 A1 (KONRAD JOHN JOSEPH ET 1-17 AL) 19 September 2002 (2002-09-19) paragraphs '0018! - '0039!; figures 1a-1e Α US 5 382 315 A (KUMAR ET AL) 1 - 1717 January 1995 (1995-01-17) column 5, lines 29-36 column 8, lines 15-25 column 8, lines 38-48 column 8, line 65 - column 9, line 5; figures 4,6 Α EP 0 817 549 A (NGK SPARK PLUG CO. LTD) 1 - 177 January 1998 (1998-01-07) column 14, line 3 - column 18, line 18; figure 7 -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the \*A\* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed Invention cannot be considered to involve an Inventive step when the document is combined with one or more other such docu-'O' document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report

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Authorized officer

## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2005/000698

	cition) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
,		1-17
	EP 1 376 234 A (NIPPON PAINT CO., LTD) 2 January 2004 (2004-01-02) paragraphs '0023! - '0033!; figures 1,2	·
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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2005/000698

Patent document cited in search report		Publication date	Patent family member(s)			Publication date
US 2002129972	A1	19-09-2002	US	2004064939 A	41	08-04-2004
US 5382315	Α	17-01-1995	US US US AU WO US US JP WO	5244538 A 5312514 A 5290732 A 5156997 A 6668794 A 9425976 A 5399238 A 5331172 A 7501419 T 9214260 A	Α Α Α Α Α Α Γ	14-09-1993 17-05-1994 01-03-1994 20-10-1992 21-11-1994 10-11-1994 21-03-1995 19-07-1994 09-02-1995 20-08-1992
EP 0817549	A	07-01-1998	JP EP	10075038 <i>A</i> 0817549 <i>A</i>		17-03-1998 07-01-1998
EP 1376234	Α .	02-01-2004	EP US WO JP TW	1376234 / 2004086806 / 02077713 / 2002365805 / 535475 E	A1 A1 A	02-01-2004 06-05-2004 03-10-2002 18-12-2002 01-06-2003